

DD/A 77-5499
11 October 1977

MEMORANDUM FOR : [REDACTED]
Chief, R&D Planning Staff
FROM : [REDACTED]
Executive Officer/DDA
SUBJECT : RD&E Problem Area Statements

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Attached herewith are memorandums from
Directors of Logistics, Communications, Security
and Data Processing concerning possible R&D require-
ments over the next five to seven years.

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Attachments: 4

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Dist: Org- RD&E/DDS&T w/atts.
✓ 1- DDA Subj w/att
1- DDA Chrono w/o
1-RFZ w/o att

7 OCT 1977

MEMORANDUM FOR: Executive Officer, DDA

FROM: James H. McDonald
Director of Logistics

SUBJECT: Research and Development Programs

REFERENCES: (a) Multiple Adse Memo dtd 19 Sep 77 fm
DD/S&T, Subj: FY-80 RD&E Program
(DD/S&T-4518-77) (DD/A 77-5250) (OL 7 4329)

(b) Memo dtd 30 Aug 77 to EO/DDA fm C/R&D/PS/
DDS&T, Subj: RD&E Problem Area Statements
(DD/S&T-4023-77) (DD/A 77-4892) (OL 7 4292)

1. In response to your request, we have examined potential problem areas wherein DDS&T research and development programs might assist in reaching a viable solution. We suggest that appropriate research be conducted towards achieving more suitable methods and design for vault construction; i.e.:

a. Study and develop the most cost-effective design for vault construction using: (1) a light-weight material such as light-weight concrete; (2) reinforced "standard" concrete; (3) reinforced masonry construction; and (4) some sort of precast panels. Present specifications call for 3000 psi concrete with #5 bars on 5-inch centers each way. It is questionable whether or not this actually gives us more protection against the penetration that we are concerned with than if fewer bars were used (say, bars on 6-inch centers). It is suggested that the National Bureau of Standards be used as a source of this, (2), portion of the work. (Please note that a study of penetration times has been conducted by the Army, and the results are available.)

b. Pursue a program leading to the development of a port-a-vault. Dimensions should be approximately 300 square feet with hookups for secure communications and heating, ventilation, and air conditioning; it should meet Office of Security standards and be capable of erection within 48 hours of site preparation in standard office buildings in the United States.

SUBJECT: Research and Development Programs

2. Please advise DDS&T that we will provide additional information as required.

~~Signed: James H. McDonald~~

James H. McDonald

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ODP 1978-77
30 September 1977

MEMORANDUM FOR: Executive Officer, DDA

FROM : Clifford D. May, Jr.
Director of Data Processing

SUBJECT : RD&E Problem Area Statements

REFERENCE : DDS&T 4023-77 dtd 30 Aug. 77,
same subject

1. Please pass the attached to Chief, R&D Planning Staff, DDS&T, as ODP's response to the referenced memorandum.

2. As you know, ODP has been in close contact with ORD for the past few years on RD&E projects related to ADP. I receive a quarterly briefing from ORD on the status of these projects, and many of my people work closely with ORD project managers as these projects develop. I believe we have a good working relationship with DDS&T on RD&E projects in the ADP area, and welcome this opportunity to provide our input once more.


Clifford D. May, Jr.

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Att: a/s

30 September 1977

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ADP Problem Areas Foreseen by ODP

Planning for computer-related research and development is often hampered by the rapid change in technology. For this reason, our research objectives tend to be directed towards the shorter term. ODP maintains an excellent relationship with the Office of Research and Development, and we are enthusiastic participants in the fiscal year planning exercises run by ORD. Through this mechanism, we have indicated our continuing interest in several broad areas relating to computers, including distributed computing, data communications, data base management, computer terminals, text searching, computers security, and advanced technology.

Through discussions with senior ODP management, we have established several areas of significant long range interest:

- ° Distributed Computing - we will request assistance from ORD in understanding effective mechanisms for utilizing small-scale and special purpose processors integrated with our central computing resources.
- ° Data Communications - we will want to explore the potential application of new communications technology, such as fiber optics, for digital and image transmission.
- ° Data Base Management - we require exploration into future software and hardware technology for data base management, with an emphasis on large file storage and retrieval.
- ° Analytical Methodology - we expect to sponsor research directed towards analytical means of processing the large data files associated with the SAFE system to enhance the intelligence value of the data.
- ° Future Technology - we will continue to utilize ORD to help us stay abreast of burgeoning computer technology. Of particular value would be techniques for developing accurate technology forecasting and determining cost and performance trends for computing equipment and peripherals.
- ° Advanced Terminals - we would like to see some exploration directed towards the development of low cost intelligent terminals, with emphasis on terminal display and memory technology.

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- ° Word Processing - the integration of future word processing facilities with the ODP general and SAFE computing facilities has been identified as an area of future research involvement.

TAB

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DD/S&T-4023-77

30 August 1977

MEMORANDUM FOR: Executive Officer, DD/A

SUBJECT: RD&E Problem Area Statements (A/IUO)

1. (A/IUO) The formulation of the next cycle of the RD&E program could be more responsive to your needs if we had descriptions of the problem areas you foresee occurring 5 to 7 years from now. This is the average length of time required for programming and development. While the descriptions may be somewhat general at this point in time they should be based on realistic options that you are considering for that time period.

2. (A/IUO) Any other comments that provide guidance would be appreciated. An input from you during the month of September is desirable so that the DDS&T can give guidance to its offices in order that they might propose R&D programs responsive to your outyear needs. If I can be of assistance, please call me on extension [REDACTED]

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[REDACTED]
Chief, R&D Planning Staff
Directorate of
Science and Technology

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DD/S&T-4518-77


19 September 1977

MEMORANDUM FOR: Deputy Director for Administration
Deputy Director for Intelligence
Deputy Director for Operations

SUBJECT: FY-80 RD&E Program

(C) Based on the planning inputs expected from you within the next few days concerning the RD&E program, I plan to provide guidance about the FY-80 RD&E Program to the appropriate Office Directors during the first part of October. I have asked the Office Directors to provide descriptions of their proposed projects to your staff by about Thanksgiving. Your review and prioritization of the proposed projects before Christmas would be very helpful. After consolidation of all the RD&E proposals I will coordinate the results with you. This coordination will occur sometime early next year when the schedule for the budget activities is firmly established.

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LESLIE C. DIRKS
Deputy Director
for
Science and Technology

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DD/A Registry
File Contracts-1

DDA 78-1010/1

19 April 1978

MEMORANDUM FOR: Deputy Director for Science and Technology

FROM: John F. Blake
Deputy Director for Administration

Les:

1. (C) It has been agreed between you and me that the responsibility for COMSEC R&D will be returned to the Office of Communications.
2. (C) At the time DDS&T assumed this responsibility in 1973, OC transferred two personnel ceiling to you. It is our understanding that the level of effort has been reduced since 1973 to one individual.
3. (C) I am informed that OSO refuses to transfer along with the COMSEC R&D responsibility the one personnel ceiling involved. For my part I think we are being extremely reasonable in not asking for the return of two personnel ceiling. I would appreciate reciprocity in reasonableness and ask that OSO forthwith transfer one personnel ceiling to the Office of Communications.

/s/ Jack

John F. Blake

Distribution:

Orig - DDS&T
1 - D/CO
✓ 1 - DDA Subj
1 - DDA Chrono
1 - JFB Chrono

DDA:JFB:kmg (19 Apr 78)

Refs:--Memo dtd 29 Mar 78 to DDA fr DDS&T, subj: R&D Support for Office of Communications COMSEC Function (DDA 78-0320/7)

--Memo dtd 14 Mar 78 to DDS&T fr DDA, subj: Communications Security Development and Engineering (DDA 78-1010)

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DD/A Registry
78-0320/7

DD/S&T-1532-78

29 March 1978

DD/A Registry
File *Contracts-1*

MEMORANDUM FOR: Deputy Director for Administration


SUBJECT : R&D Support for Office of Communications
COMSEC Function

REFERENCE : DDA 78-1010 dtd 14 Mar 78
To: DD/S&T From: DDA
Subj: Communications Security
Development and Engineering

1.(C) At your suggestion in the reference memo, I have reviewed the issue of R&D COMSEC support to the Office of Communications. As you noted, this function was moved from OD&E to OSO along with development support to the OSO special collection activity. While I think the DD/S&T can continue effective support to the Office of Communications with the new arrangements in the S&T, I see no compelling reason not to return this small, direct support activity to the Office of Communications. As we discussed yesterday, an appropriate next step would be for the D/OSO and D/OC to confer on the specifics for transferring contractual responsibilities, outyear funding and a mutually acceptable way of reviewing and coordinating the COMSEC RD&E program between the two directorates.

2.(C) For any major new development activities, it still makes sense for the DD/S&T to be responsible for providing engineering support to the Office of Communications in particular and to DDA in general. We will, of course, also continue the various ORD managed exploratory development activities which support DDA requirements.

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LESLIE C. DIRKS
Deputy Director
for
Science and Technology

cc: Comptroller DDA Distribution:
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DDA Registry
To Security - 2

DDA Registry
78-1010

14 MAR 1978

MEMORANDUM FOR: Deputy Director for Science & Technology
FROM : John F. Blake
Deputy Director for Administration
SUBJECT : Communications Security Development and
Engineering (U)

1. (C) In 1973 when the Office of Communications (OC) development and engineering (D&E) programs for covert communications and communications security were transferred to your Directorate, it was for the purpose of consolidating all D&E efforts within a single office, the Office of Development and Engineering. Since that time, the decision has been made within your Directorate to return D&E programs to the Office of Technical Services and, more recently to the Office of SIGINT Operations. This reversal of the former position is welcomed by the DDA as a more efficient means of carrying out D&E programs.

2. (C) A logical extension of this new position would be to return the communications security D&E program to OC, which is tasked with providing the Agency's communications security support. The D&E effort, which only encompasses several positions and a modest budget, is critical to this program.

3. (C) If you agree that we should transfer the development and engineering responsibility for communications security back to OC, please have a member of your staff contact [REDACTED] I would be happy to discuss the subject with you if there are any problems associated with the proposal.

/s/ John F. Blake

John F. Blake

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DD/A Registry

78-1010

DD/A Registry
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14 MAR 1978

MEMORANDUM FOR: Deputy Director for Science & Technology

FROM : John F. Blake
Deputy Director for Administration

SUBJECT : Communications Security Development and
Engineering (U)

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/s/ John F. Blake

John F. Blake

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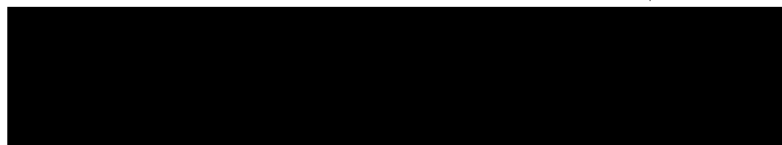
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SUBJECT: Communications Security Development and
Engineering (U)

Distribution:

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1 - D/CO

ORIGINATOR:



Director of Communications

13 MAR 1978

Date

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DDA Registry
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ODP-619/78
14 APR 1978

MEMORANDUM FOR: Executive Officer, DDA

FROM : Clifford D. May, Jr.
Director of Data Processing

SUBJECT : FY-80 RD&E

REFERENCE : Memo from DDS&T to DDA, dtd. 30 March 1978,
Same Subject

1. Referenced memorandum invites concurrence and/or comments on the current level program of the DDS&T for RD&E resources.

2. The current level program, as outlined in the reference, addresses four of the five high priority research objectives from this office which were submitted to ORD during their FY 80 planning exercise. Three of these items were included in the DDA coordinated list of priority R&D projects. We concur with the selection of the projects and the funding levels specified, although we had expected at least some of these projects to be included in the DDS&T minimum program.


Clifford D. May, Jr.

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Attachment: a/s

Distribution:
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2 - O/D/ODP

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DD/A Registry

78-0320/8

DD/S&T-1477-78

30 March 1978

DD/A Registry

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Contracts -1

MEMORANDUM FOR: Deputy Director for Administration

SUBJECT: FY-80 RD&E Program

REFERENCE: DD/S&T-1532 dated 29 March 1978, Subject:
R&D Support for Office of Communications
COMSEC Function

1. (C) On 29 March 1978 this Directorate forwarded its Minimum program for FY-80 to O/Compt. Additionally, we forwarded candidate Austere level packages for consideration for inclusion in any modified Agency minimum program. These programs included proposals for RD&E projects either in continuation of efforts initiated in prior fiscal years or for a few new high priority projects.

2. (C) The FY-80 RD&E Programs, submitted to date, reflect your input to us and proposals from our RD&E offices. These two inputs were prioritized and balanced against the budgetary and procedural constraints imposed by the ZBB process and ultimately resulted in the attached project listings. You will note that COMSEC RD&E projects have not been included in this particular submission. When the final submission is made, we plan to include [REDACTED] of COMSEC RD&E within the Multipurpose R&D Decision Unit current level. The reference outlines those steps, beyond those taken to date, necessary to complete the FY-80 planning for COMSEC RD&E.

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3. (C) We would appreciate your concurrence and/or comments on this Current level program.

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[REDACTED]
Leslie C. Dirks
Deputy Director
for
Science and Technology

Attachment: a/s

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DD/A Registry
78-0199/3

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DD-M78-096

7 FEB 1978

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MEMORANDUM FOR: Executive Officer, DDA

FROM : [REDACTED]
Director of Communications

SUBJECT : FY-1980 RD&E Support (U/AIUO)

REFERENCE : DD/S&T-376-78

1. (U/AIUO) This office has reviewed the proposed DD/S&T RD&E programs to meet DDA technical support requirements. There is continued interest in all of these except the micropower programs (attachments 30 and 31 to reference). (TABS)
A ranking order of the remaining programs was not made as there is equal interest in each of them. Also, it was our understanding that the "Computer Support to Field Stations" (attachment 32 to reference) has been discontinued.

2. (C) The focal point officer within the Office of Communications will be [REDACTED] Chief, Communications Engineering, extension [REDACTED]

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